

NC/QC/W-13/2019-20/AK-W1

Date: 20-09-2019

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	86.95	95-100
26.50	---	-
22.40	62.40	60-80
11.20	59.10	40-60
4.75	35.60	25-40
2.36	18.30	15-30
0.600	11.75	8-22
0.075	3.85	0-5

Page No. 1/2,

K. R.
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AS-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ, ವಲಯ
ಬ್ಲಾಕ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13, 10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Date: 20-09-2019

TABLE 1.2

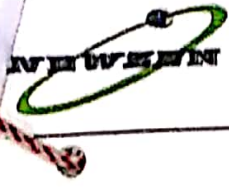
SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.10 %	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.65 %	Not more than 35.0 %
3.	Water absorption, %	0.40 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

AS-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ವಿ.ಸಿ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ ಬೆಂಗಳೂರು
Page No. 2/2

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NC/QC/W-13/2019-20/AK -C1

Date: 21-09-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	280 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.88 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.95 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.31 N/Sq mm	Shall not be less than 27 N/Sqmm

AS-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NC/QC/W-13/2019-20/AK -FA1

Date: 23-09-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	
04.75	96.80	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.15	60-95	75-100	85-100	
01.18	67.60	30-70	55-90	75-100	
600. mic	56.45	15.34	35-59	60-79	
300.mic	12.35	5-20	8-30	12-40	
150.mic	8.05	0-10	0-10	0-10	

TABLE 1.2 ;

SI No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	19.20 %	-----
2	Silt Content	----	0.61 %	Not more than 8%
3	Specific Gravity	----	2.61	-----

AI-13

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ/1,
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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(For Newzen Consultants Bangalore



NC/QC/W-13/2019-20/AK -PCC1

Date: 21-09-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,

Shettyhalli Sub division,

BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	100.00	100.00
20mm	96.85	85-100	95 - 100
10mm	32.60	0 - 20	25 - 55
4.75mm	7.25	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.80	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.65	60-95	75-100	85-100	
01.18	66.20	30-70	55-90	75-100	
600.mic	39.05	15-34	35-59	60-79	
300.mic	13.85	5-20	8-30	12-40	
150.mic	8.70	0-10	0-10	0-10	

75-13

ಇದರಲ್ಲಿ ಕೆಳಕಂಡಂತಿರುವ ವಿವರಗಳು
ಪಟ್ಟಿ ಸಹಿತವಾಗಿ, ಸಾಕಷ್ಟು ಸಮಯ
ಬಳಿಕೆ ಮಾಡುವುದು ಮತ್ತು ಸಾಕಷ್ಟು
ಮಾ. ಎಂ. ರಾ. ರೂಪದಲ್ಲಿರುತ್ತದೆ. Page No. 1/1.

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NC/QC/W-13/2019-20/AK -C3

Date: 23-09-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20.

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	172 min	Shall not be less than 30 min
2	Final setting time	290 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.82 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.64 N/Sq mm	Shall not be less than 27 N/Sqmm

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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NC/QC/W-13/2019-20/AK -CA1

Date: 23-09-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.35	85-100	90 - 100
10 mm	41.80	0 - 20	25 - 55
4.75 mm	6.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.10 %	Not to exceed 25 %
2.	Crushing value	26.31 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

AK-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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NC/QC/W-13/2019-20/AK -CB1

Date: 03-10-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-09-19	03-10-19	07	22500	540	24.00	24.52
	002	"	"	"	"	560	24.89	
	003	"	"	"	"	555	24.67	

[Signature]
AK-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು
Page No. 1/1

[Signature]
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[Signature]
(For Newzen Consultants Bangalore)



NC/QC/W-13/2019-20/AK -CB2

Date: 03-10-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-09-19	03-10-19	07	22500	545	24.22	24.30
	002	"	"	"	"	560	24.89	
	003	"	"	"	"	535	23.78	

AK-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Page NO: 1/1,

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Proprietor

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NC/QC/W-13/2019-20/AK -CB1a

Date: 24-10-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-09-19	24-10-19	28	22500	740	32.89	32.52
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	730	32.44	

13-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು-560056
Page No: 1/1

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(For Newzen Consultants Bangalore)



NC/QC/W-13/2019-20/AK -CB2a

Date: 24-10-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Drinking Water Facilities at Ashwath katte Surrounding area in ward no 13.}

Ref.: Material testing/W-13/QC/19-20,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-09-19	24-10-19	28	22500	735	32.67	32.74
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	745	33.11	

AK-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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